

## ABSTRACT

The inductive coupling for transferring electrical energy to or from a transducer and measuring circuit, consists of a male connector part (2) and a female connector part (10). The male part (2), includes a single layer solenoid (7) wound on a ferromagnetic rod (6), the ends of the solenoid (5a and 5b) connected to conductors (3a and 3b) connected to an ultrasound probe (not shown) via cable (1). The female part (10) includes a single layer solenoid (11). The ends of solenoid (11) are brought out to terminals (12a and 12b) to facilitate electrical connection to the ultrasound drive electronics (not shown). The coupling provides a simple sealed signal connection between the cable connected with the transducer and the measuring circuit electronics without the disadvantages of having exposed contact surfaces. The cable connector can be replaced if desired.